

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P530428

Luminaire Tested: **GALN-SA5C-827-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-827-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22067 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

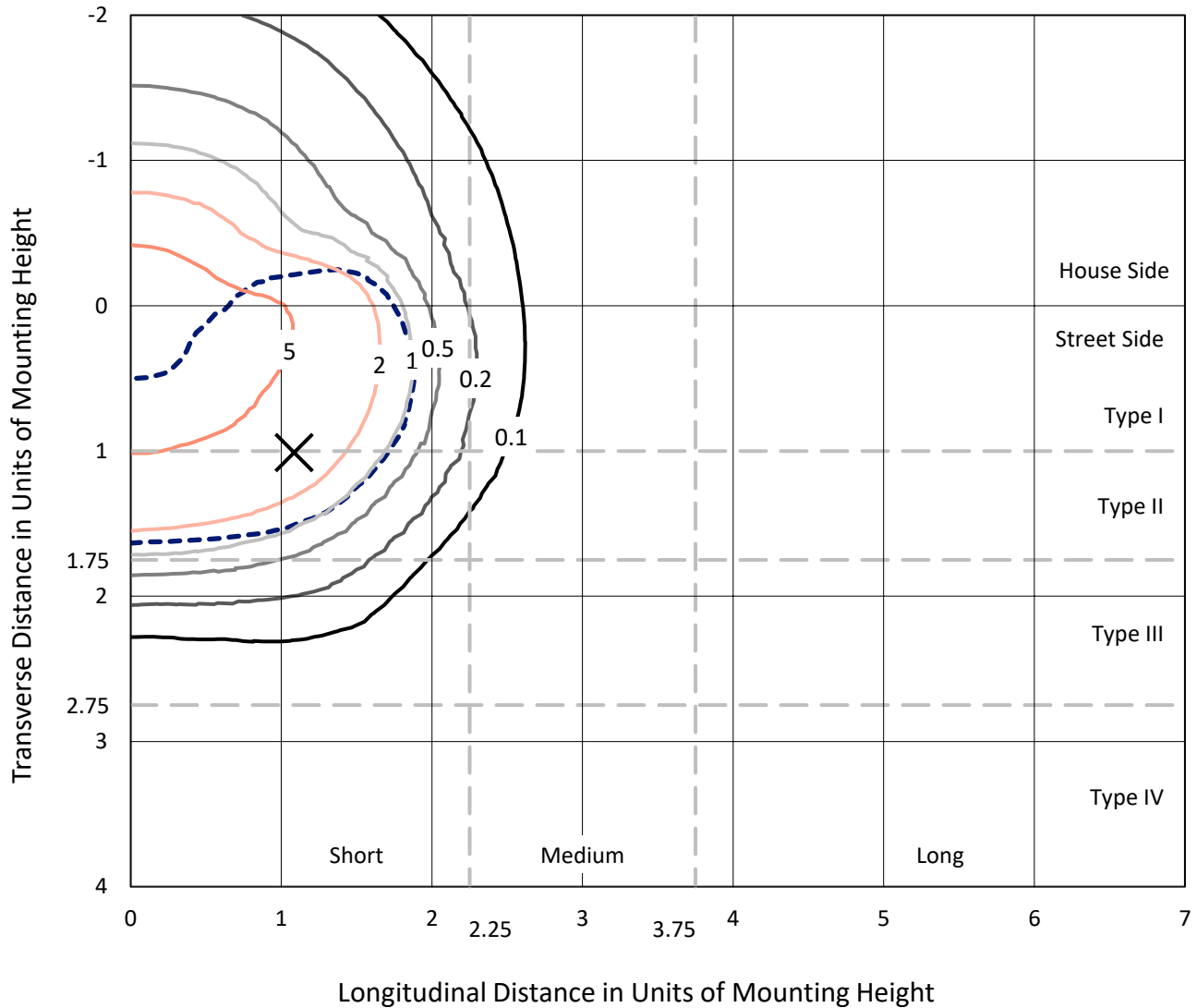
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

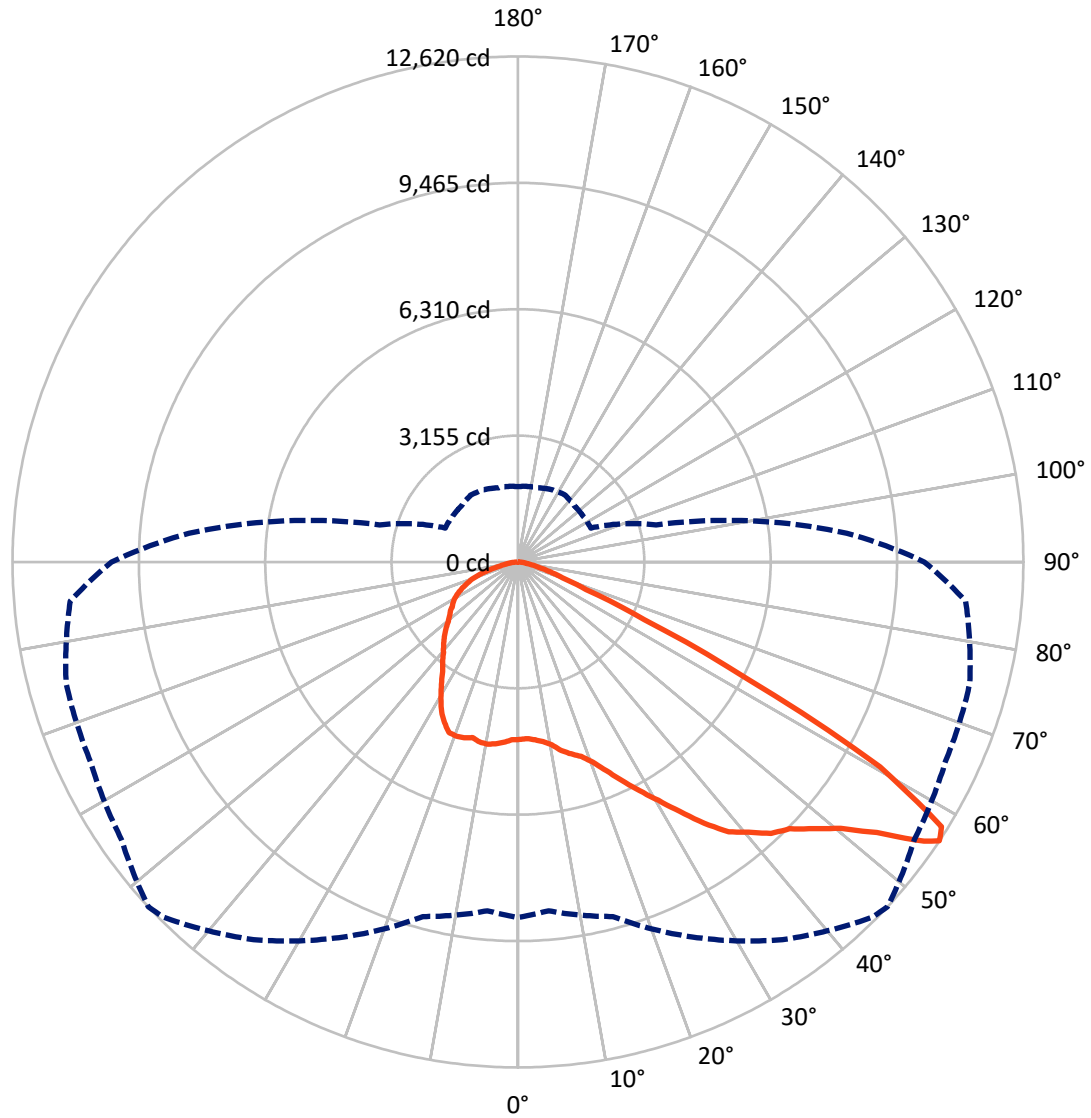
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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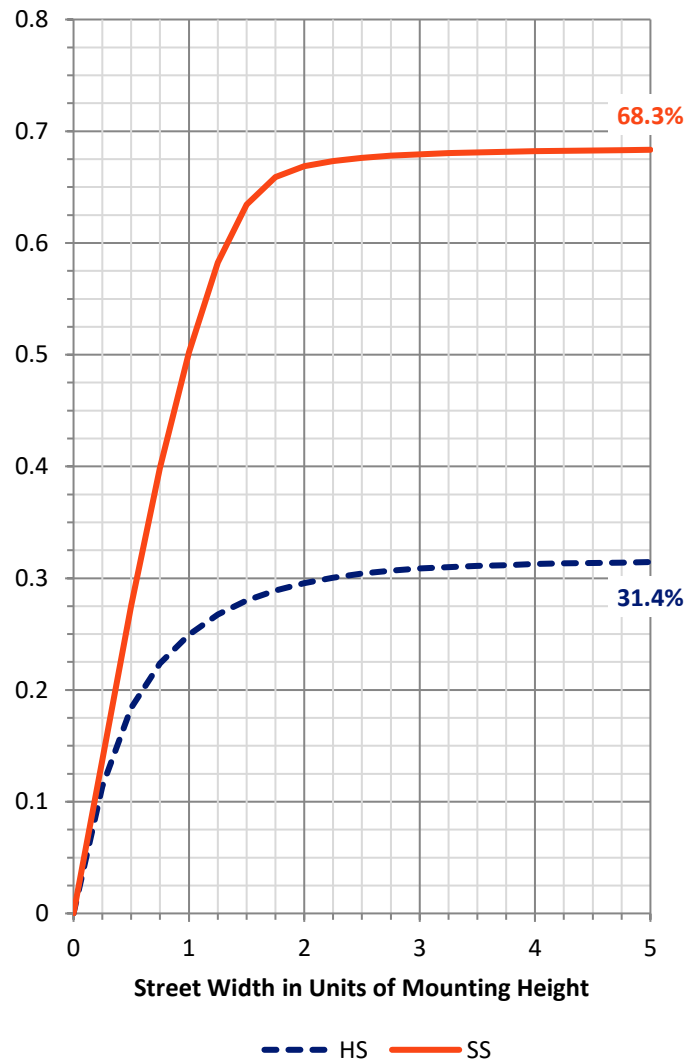
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6992.8	0.0	6992.8
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	15074.2	0.0	15074.2
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	22067.0	0.0	22067.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.9	2.0
10°-20°	1362.4	6.2
20°-30°	2408.4	10.9
30°-40°	3617.4	16.4
40°-50°	4964.5	22.5
50°-60°	5914.5	26.8
60°-70°	2531.1	11.5
70°-80°	716.3	3.2
80°-90°	120.5	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	22067.0	100.0
0°-180°	22067.0	100.0



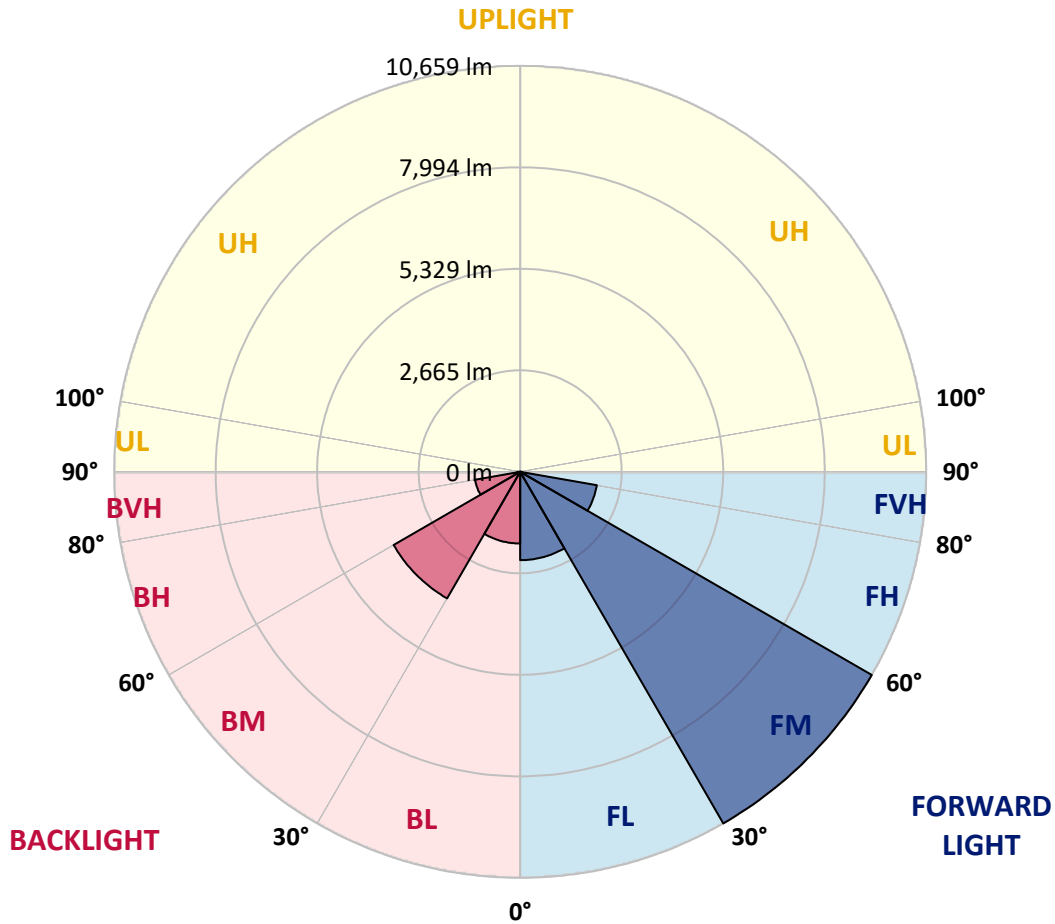
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2320.0	10.5			
FM (30°-60°)	10658.9	48.3			
FH (60°-80°)	2044.2	9.3			G2/5000
FVH (80°-90°)	51.2	0.2			G1/100
BL (0°-30°)	1882.7	8.5	B3/2500		
BM (30°-60°)	3837.5	17.4	B3/5000		
BH (60°-80°)	1203.1	5.5	B3/2500		G3/2500
BVH (80°-90°)	69.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6
2.5°	4415.7	4407.3	4401.6	4446.7	4429.8	4432.6	4415.7	4432.6	4443.8	4418.5	4455.1
5°	4407.3	4432.6	4410.1	4424.1	4460.7	4449.5	4460.7	4494.5	4486.1	4477.6	4466.4
7.5°	4486.1	4488.9	4505.8	4511.4	4522.6	4511.4	4528.3	4559.2	4550.8	4502.9	4508.6
10°	4598.6	4604.3	4607.1	4638.0	4657.7	4660.6	4640.9	4612.7	4609.9	4674.6	4629.6
12.5°	4728.1	4714.0	4747.8	4759.1	4781.6	4806.9	4832.2	4773.1	4809.7	4812.5	4759.1
15°	4916.7	4930.7	4891.3	4891.3	4899.8	4902.6	4972.9	4944.8	4939.2	4908.2	4930.7
17.5°	5198.1	5102.4	5099.6	5060.2	5054.6	5077.1	5102.4	5124.9	5200.9	5139.0	5018.0
20°	5403.5	5426.1	5344.4	5296.6	5305.0	5355.7	5330.4	5431.7	5485.2	5383.8	5265.6
22.5°	5766.6	5690.6	5710.3	5603.4	5611.8	5665.3	5662.5	5766.6	5797.5	5637.1	5465.5
25°	6011.4	5991.7	6008.6	5924.2	5935.4	5977.7	6045.2	6216.9	6166.2	5988.9	5592.1
27.5°	6368.9	6329.5	6315.4	6284.4	6273.2	6385.7	6464.5	6647.5	6610.9	6352.0	5817.2
30°	6734.7	6709.4	6723.5	6596.8	6641.8	6881.1	6903.6	7154.1	7137.2	6681.2	6067.7
32.5°	6988.0	7002.1	7027.4	6957.1	7156.9	7348.2	7424.2	7708.5	7722.6	7246.9	6551.8
35°	7396.1	7348.2	7362.3	7443.9	7536.8	7885.8	8009.6	8198.2	8316.4	7840.8	7016.2
37.5°	7652.2	7702.9	7643.8	7773.2	8015.2	8434.6	8547.2	8741.3	8865.2	8426.1	7649.4
40°	8051.8	7970.2	8012.4	8105.3	8353.0	8899.0	8868.0	9067.8	9107.2	8924.3	8240.4
42.5°	8482.4	8443.0	8383.9	8595.0	8803.3	9200.1	9262.0	9169.1	9368.9	9411.2	9084.7
45°	8997.5	9045.3	9053.7	9059.4	9242.3	9588.5	9504.0	9422.4	9653.2	9960.0	9608.2
47.5°	9475.9	9323.9	9433.7	9585.7	9844.6	9847.4	9945.9	9751.7	9996.5	10269.5	10081.0
50°	9636.3	9563.1	9709.5	9996.5	10396.2	10438.4	10449.7	10173.8	10300.5	10517.2	10244.2
52.5°	9574.4	9549.1	9923.4	10368.0	10953.4	11167.3	11223.6	10883.1	10953.4	10854.9	10604.4
55°	9278.9	9354.9	9732.0	10638.2	11536.0	12197.4	12304.3	11873.7	11426.2	11502.2	11226.4
56°	8873.6	8741.3	9163.5	10331.5	11510.7	12532.3	12619.5	12082.0	11778.0	11679.5	11220.8
57.5°	7528.4	7356.7	7911.1	9295.8	10871.8	12405.6	12470.4	12169.2	11718.9	11519.1	10401.8
60°	4407.3	4491.7	5195.3	6411.1	8386.7	10171.0	10387.7	10607.3	10306.1	9411.2	7742.3
62.5°	2127.6	2074.2	2577.9	3675.5	5110.8	6492.7	6428.0	7044.3	7382.0	6686.9	4888.5
65°	1114.5	1108.9	1407.2	2006.6	2808.7	3411.0	3470.1	3802.2	4266.5	3444.8	2482.3
67.5°	819.0	841.5	990.6	1410.0	1806.8	1843.4	1835.0	2001.0	2046.0	1730.8	1525.4
70°	641.7	652.9	762.7	1072.3	1345.3	1204.5	1179.2	1198.9	1331.2	1387.5	1319.9
72.5°	464.4	475.6	568.5	723.3	841.5	821.8	838.7	948.4	1111.7	1170.8	1100.4
75°	309.6	318.0	368.7	441.9	498.1	537.5	568.5	695.1	847.1	880.9	847.1
77.5°	213.9	222.3	256.1	312.4	318.0	343.3	354.6	413.7	506.6	548.8	526.3
80°	121.0	121.0	137.9	160.4	197.0	230.8	236.4	284.2	326.5	354.6	360.2
82.5°	56.3	59.1	73.2	98.5	129.5	160.4	166.0	197.0	228.0	256.1	264.5
85°	28.1	31.0	42.2	59.1	78.8	95.7	92.9	95.7	101.3	95.7	98.5
87.5°	8.4	8.4	11.3	14.1	11.3	14.1	14.1	16.9	19.7	22.5	25.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6
2.5°	4457.9	4466.4	4410.1	4463.5	4443.8	4441.0	4480.4	4474.8	4488.9	4483.2	4449.5
5°	4460.7	4441.0	4500.1	4446.7	4472.0	4525.5	4488.9	4573.3	4531.1	4559.2	4497.3
7.5°	4548.0	4553.6	4542.3	4564.9	4553.6	4578.9	4559.2	4578.9	4545.2	4548.0	4604.3
10°	4624.0	4607.1	4626.8	4598.6	4618.3	4609.9	4564.9	4550.8	4562.0	4548.0	4584.6
12.5°	4764.7	4733.7	4719.7	4685.9	4663.4	4578.9	4508.6	4469.2	4522.6	4531.1	4514.2
15°	4908.2	4911.0	4846.3	4770.3	4629.6	4502.9	4519.8	4533.9	4533.9	4556.4	4514.2
17.5°	4998.3	4998.3	4939.2	4787.2	4643.7	4570.5	4553.6	4508.6	4469.2	4463.5	4460.7
20°	5155.9	5108.0	4972.9	4784.4	4638.0	4604.3	4477.6	4370.7	4289.1	4260.9	4258.1
22.5°	5336.0	5215.0	5026.4	4790.0	4629.6	4581.8	4345.3	4184.9	4038.6	3976.7	3985.1
25°	5502.0	5307.9	5057.4	4764.7	4598.6	4367.9	4103.3	3881.0	3729.0	3678.3	3653.0
27.5°	5617.4	5406.4	5057.4	4787.2	4483.2	4128.6	3858.5	3574.2	3441.9	3408.2	3413.8
30°	5772.2	5530.2	5144.6	4739.4	4252.5	3819.1	3495.4	3309.7	3230.9	3202.7	3222.4
32.5°	6135.3	5853.8	5265.6	4624.0	3979.5	3509.5	3247.8	3143.6	3028.2	2971.9	2952.2
35°	6529.3	6160.6	5383.8	4429.8	3672.7	3228.1	3064.8	2969.1	2831.2	2769.3	2780.6
37.5°	7086.5	6554.6	5392.3	4108.9	3340.6	3070.4	2921.3	2772.1	2659.6	2563.9	2535.7
40°	7837.9	7092.1	5372.6	3771.2	3073.3	2884.7	2774.9	2589.2	2462.5	2395.0	2409.1
42.5°	8499.3	7722.6	5291.0	3388.5	2831.2	2758.1	2634.2	2451.3	2327.5	2257.1	2251.5
45°	9056.6	8186.9	5136.2	3062.0	2628.6	2617.3	2473.8	2333.1	2234.6	2169.9	2198.0
47.5°	9571.6	8561.2	4902.6	2735.5	2442.8	2465.4	2327.5	2240.2	2178.3	2119.2	2116.4
50°	9757.3	8555.6	4697.1	2465.4	2293.7	2282.4	2276.8	2183.9	2119.2	2068.5	2091.1
52.5°	10066.9	8651.3	4474.8	2279.6	2158.6	2161.4	2181.1	2113.6	2040.4	2009.4	2037.6
55°	10511.6	8665.4	3985.1	2062.9	2046.0	2065.7	2065.7	2020.7	1958.8	1933.5	1919.4
56°	10148.5	8246.0	3574.2	2006.6	1989.7	1989.7	2043.2	1992.6	1916.6	1896.9	1880.0
57.5°	9360.5	7224.4	2991.6	1939.1	1913.8	1953.2	1981.3	1927.8	1857.5	1829.3	1846.2
60°	6456.1	4888.5	2248.7	1792.7	1792.7	1857.5	1880.0	1801.2	1770.2	1767.4	1744.9
62.5°	3768.4	2848.1	1759.0	1660.5	1666.1	1719.6	1736.4	1691.4	1652.0	1699.9	1722.4
65°	1998.2	1699.9	1508.5	1519.7	1522.6	1564.8	1637.9	1635.1	1632.3	1646.4	1649.2
67.5°	1446.6	1412.8	1370.6	1359.3	1365.0	1395.9	1469.1	1525.4	1522.6	1488.8	1463.5
70°	1289.0	1241.1	1215.8	1218.6	1196.1	1232.7	1291.8	1328.4	1263.6	1224.2	1207.4
72.5°	1072.3	1058.2	1041.3	1044.1	999.1	990.6	923.1	923.1	906.2	895.0	914.7
75°	819.0	813.3	821.8	807.7	759.9	709.2	669.8	633.2	576.9	554.4	543.2
77.5°	517.8	534.7	554.4	523.5	503.8	467.2	427.8	391.2	346.2	320.8	320.8
80°	351.8	365.9	379.9	374.3	351.8	318.0	287.1	247.7	216.7	197.0	194.2
82.5°	267.4	278.6	298.3	275.8	253.3	225.1	199.8	171.7	143.5	121.0	121.0
85°	95.7	109.8	121.0	132.3	140.7	143.5	123.8	101.3	81.6	64.7	61.9
87.5°	25.3	28.1	31.0	28.1	28.1	28.1	31.0	28.1	25.3	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)